



**WORLD
POSSIBLE**

RACHEL-Plus -- QUICK START GUIDE

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**Connecting Offline Learners to
the World's Knowledge**

Support available at

<http://community.worldpossible.org>

Before Starting:

This document was last updated 04/13/2022

WARNING: Shutting Down

- **When turning off this device DO NOT hold the power button down.**
- **To safely shut down the device, and avoid potential damage, tap the power button 1 time and release, then wait 30 seconds for the device to properly shut down.**

WARNING: Shipping, handling, and operation

- **This device contains sensitive components. You must be especially careful when shipping, carrying, or packaging this device.**
- **Do not operate or move the device while it is turned on.**

WARNING: Battery Safety

- **Regularly discharge the battery by disconnecting the A/C power and operating the device on battery power only.**
- **Do not charge the device for extended periods of time without discharging the battery. Even if the battery charge level is less than 100%, the battery must be regularly discharged.**

Getting Started:

Push and hold down RACHEL's on button for **10 seconds** or until the blue dot turns on.



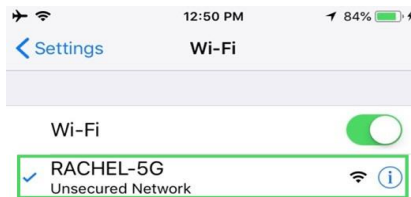
The small blue dot will illuminate for **30 seconds** until RACHEL activates.



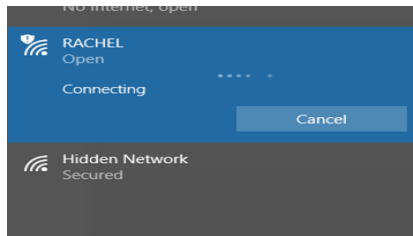
When booted, RACHEL's Wi-Fi signal light will flash slowly, you can now connect to the RACHEL wireless signal from your computer. It can take **3 minutes after flashing for all content to be ready!**



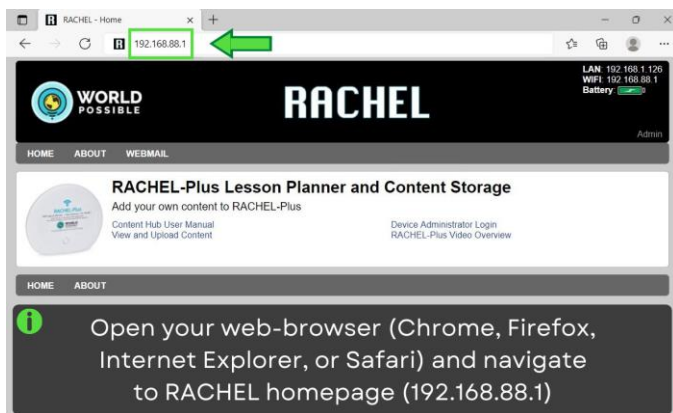
Use your computer, tablet, laptop, or phone's Wi-Fi to connect to RACHEL-5G (preferred), or RACHEL, Wi-Fi signals.



OR

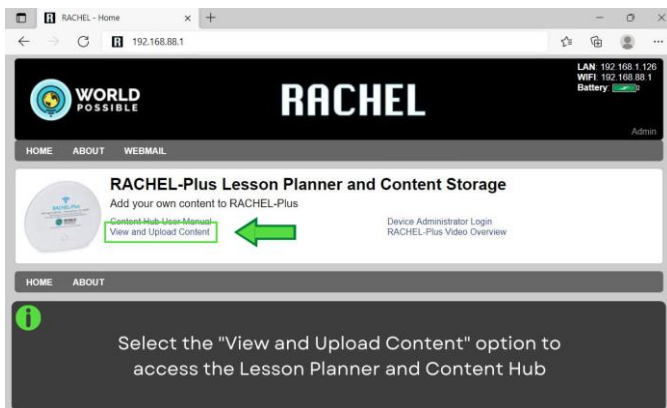


Open your web-browser (Chrome, Firefox, Internet Explorer, or Safari) and navigate to the RACHEL homepage at 192.168.88.1 From here you can access all of your RACHEL's content




Uploading Content:

Navigate to 192.168.88.1:8090 or click "View and Upload Content"



Log in with username/password admin/Rachel+1



Content Hub
Lesson Planner

Home Lessons Library

Search Library

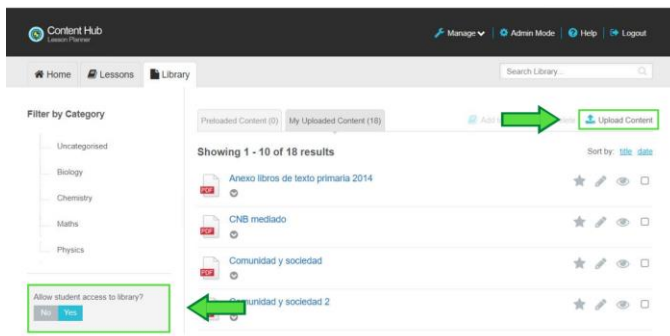
Help Login

Featured Lessons

View all lessons

i To edit the Content Hub's content, Select the "Login" button and use credentials admin/Rachel+1

Select "Admin Mode" at the top and click upload content to add your own content to Content Hub



Content Hub
Lesson Planner

Manage Admin Mode Help Logout

Home Lessons Library

Search Library

Filter by Category

- Uncategorised
- Biology
- Chemistry
- Maths
- Physics

Allow student access to library?
No Yes

Preloaded Content (0) My Uploaded Content (18)

Showing 1 - 10 of 18 results

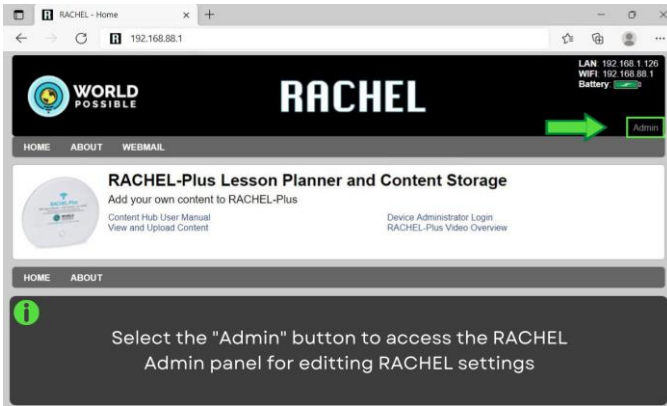
Sort by: title date

- Anexo libros de texto primaria 2014
- CNS mediado
- Comunidad y sociedad
- Comunidad y sociedad 2

i Here, a teacher can upload content for students to view

Admin Duties

Click Admin to access the admin login page



Enter the lowercase username "admin" and Password "Rachel+1", then press "Login" to log into the admin interface



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i Enter the lowercase "admin" in the Username field. Enter the password "Rachel+1" in the Password field, then click "Login"

On the Modules tab, you can sort, hide, or rearrange the modules on your device, so that other users can or cannot see content when they go to the RACHEL homepage. Click Save when finished.

RACHEL Admin

Modules Hardware Version Install Stats Settings Logout

You can show and hide modules here, or change the order by dragging them. Be sure to click "Save Changes" at the bottom of the page.

hide en | hide es | hide all | show all

sort en | sort es

en-local_content - RACHEL-Plus Lesson Planner and Content Storage	<input type="checkbox"/> hide
en-datapost - en-datapost	<input checked="" type="checkbox"/> hide
es-moocrachel - Mooc - Rachel	<input checked="" type="checkbox"/> hide
es-kalite - KA Lite	<input checked="" type="checkbox"/> hide
en-kolibri-index - en-kolibri-index	<input checked="" type="checkbox"/> hide
en-worldmap-10 - Interactive World Map	<input checked="" type="checkbox"/> hide
es-blockly-games - es-blockly-games	<input checked="" type="checkbox"/> hide
es-guias - Guías de RACHEL	<input checked="" type="checkbox"/> hide
es-wikipedia_2021 - es-wikipedia_2021	<input checked="" type="checkbox"/> hide
es-wikihow_2021 - es-wikihow_2021	<input checked="" type="checkbox"/> hide
es-wikipedia_for_schools_2021 - es-wikipedia_for_schools_2021	<input checked="" type="checkbox"/> hide
es-GCF2015 - GCF AprendeLibre.org	<input checked="" type="checkbox"/> hide

i RACHEL modules can be hidden using the checkbox on the right or sorted using the buttons above the checkboxes. Click Save when finished

On the Hardware tab, you can view available storage, and shutdown the device. Select **Advance Hardware Control** to turn Internet Off and assess networking security settings.

RACHEL Admin

Modules **Hardware** Install Stats Settings Logout

Storage Usage

Location	Size	Used/Available	Percentage
/media/RACHEL	917G	580G / 291G	67%

WiFi Control

Current Status: **On**

WARNING: If you turn off WiFi while connected through WiFi, you will be disconnected. WiFi will turn on again when the device is restarted.

System Shutdown

RACHEL-Plus

To safely shut down, just press the power button for one second and release. The unit will power off after a few moments.

You can also shut down or restart here:

Advanced Hardware Control

To modify advanced hardware settings (WiFi, DHCP, Firewall) [click here](#)

i On the Hardware Tab you can view available storage and shut down the device. Select the Advanced Hardware Control link to access network security settings

c28437

System Log

System

Guest Logins

Teacher Account

Backup / Upgrade

Interfaces

General Settings

Wireless

ENIS & DSCP

Firewall

2.4G Wireless Settings

5G Wireless Settings

2.4G WiFi device

Wireless Mode: 802.11 b/g/n mixed - 2.4GHz

Channel: Auto

Bandwidth Channel: 40MHz channel

Device Interfaces

SSID: RACHEL

Encryption: No encryption

User Limit: 51
simultaneous users (Range: 0-51, Default:51, Enter 0 for no limit)

MAC filter:

- No MAC filtering
- Prevent the following MAC addresses to connect
- Allow only the following MAC addresses to connect

MAC Address

For advance users - You can also increase security by reviewing the Wireless setting. You can set MAC addresses of your computers to access only into RACHEL.

i For advanced users - You can increase security by reviewing the wireless settings. You can set MAC address of your computers to be the only to access RACHEL.

Module Upload - It may be easier to bring new modules on a hard drive or laptop with you. Here you can upload new modules to RACHEL. We can also use this feature to run fixes or scripts sent to you by World Possible

The screenshot shows the RACHEL Admin interface. At the top, there is a navigation bar with tabs for 'Modules', 'Hardware', 'Version', 'In', 'Settings', and 'Logout'. A green arrow points to the 'Settings' tab, which is highlighted with a green border. Below the navigation bar, the 'Change Password' section contains three input fields for 'Current Password', 'New Password', and 'Repeat New', along with a 'Save Changes' button. The 'Module Upload' section features a file selection area with a 'Choose File' button, the text 'No file chosen', and an 'Upload' button. A green arrow points to the 'Upload' button. Below the file selection area, there are three bullet points: '* The file must be a valid zip file', '* The zip must contain a single folder at it's root', and '* The folder must have the same name as the zip'. At the bottom, a dark grey information box with a green 'i' icon contains the text: 'In the Settings Tab you are able to change password and also upload new modules from zip files'.

RACHEL Admin

Modules Hardware Version In Settings Logout

Change Password

Current Password

New Password

Repeat New

Save Changes

Module Upload

Choose File No file chosen Upload

- * The file must be a valid zip file
- * The zip must contain a single folder at it's root
- * The folder must have the same name as the zip

i In the Settings Tab you are able to change password and also upload new modules from zip files

Powering Down the RACHEL-Plus - To properly power down the device, simply tap the power button 1 time and immediately release. The RACHEL-Plus may take a few moments to fully power down but powering it down this way will ensure the longevity of the device.



DataPost

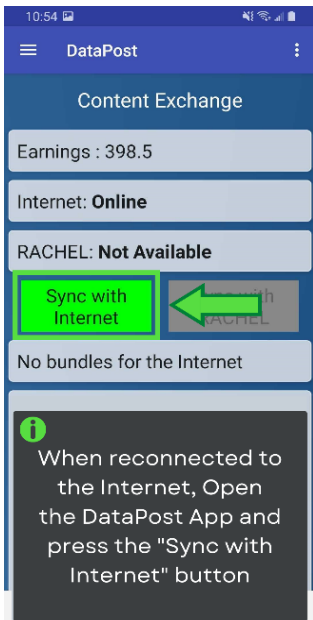
In 2021 World Possible released DataPost as a quick and easy way to get information to and from your RACHEL device without needing to put RACHEL on the internet. Anyone traveling to your RACHEL device with an Android Phone can serve as a digital mail courier, bringing new e-mails to RACHEL and picking up outgoing e-mails from the device. Included automatically in outgoing emails are usage logs of your RACHEL device that send to World Possible so we can analyze and display usage data.

Requirements:

- RACHEL-Plus 4.0 purchased in 2022 with a DataPost sticker
- Android Phone running Android 9.x or newer
- Latest DataPost app on your Android Phone
<http://community.worldpossible.org/t/latest-android-apk-file/1646>
- Patience – this feature is in testing (beta) mode

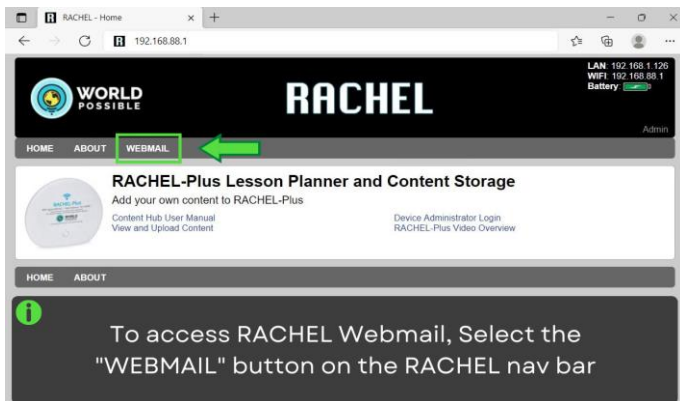
Usage Data Collection with DataPost:

1. Download the DataPost app to your android phone
2. Connect your android phone to the RACHEL Wi-Fi Signal
3. Open the DataPost app on your android phone and press Sync with RACHEL
4. Return with your android phone to a place with internet or data connectivity, open the DataPost app and click Sync with Internet

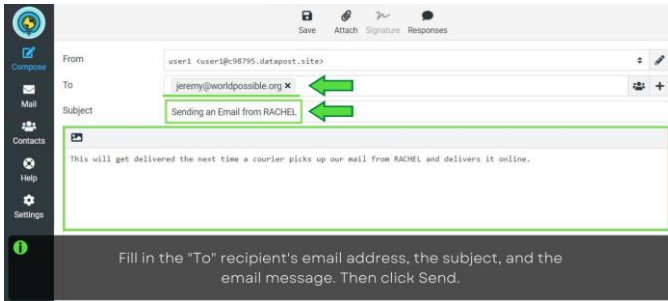


Email Communication with DataPost:

Individual users of RACHEL can also use an e-mail account on RACHEL to send and receive e-mails. The e-mails will only be delivered when a DataPost courier picks up the bundle from RACHEL and delivers it to the internet or vice-versa. RACHEL comes preloaded with 25 email accounts (user1, user2, ... user25) all with the password of: password



They can address e-mails to any e-mail account on earth. If you are a project sponsor, you can send an e-mail to them from your Gmail or any other email service you use.

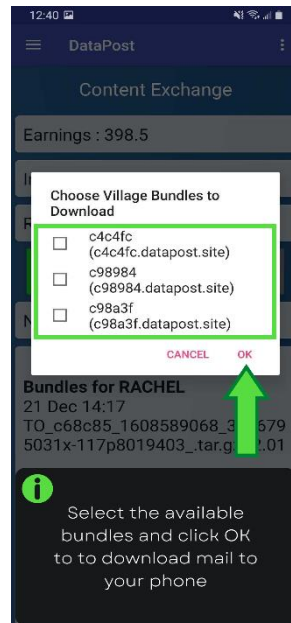


The end of their email address (the domain) is assigned by RACHEL device using a six-digit code that matches the RACHEL MAC ID.

For instance, user1@AB12CD.datapost.site where AB12CD changes based on each RACHEL device.

When using the app to pick up a bundle of e-mails from the internet destined for RACHEL, the android phone user **must first have picked up a bundle from RACHEL and delivered it to the Internet.** This process ensures the android phone user at one point had physical access to the RACHEL device and can be trusted to carry e-mails.

While your android phone is connected to the internet, open the DataPost app and Sync with Internet. If you have access to any RACHEL devices that have data needs, they will appear in a list.



DO NOT DOWNLOAD DATA IF YOU DO NOT INTEND TO DELIVER IT TO THE CORRECT RACHEL. DATA WILL BE LOST AND WILL NOT DELIVER TO THE WRONG RACHEL.

DataPost will also upload usage data from your RACHEL device to a website where anyone can view key anonymous usage statistics from your device

<https://datapost.site:4001/map.html>



<http://datapost.site:3010/single?subdomain=c9895f>

Rachel Information for c9895f

Description :

Location :12.1518,-86.2711

Last Delivery : Mon Apr 04 2022 14:22:39 GMT+0000 (Coordinated Universal Time)

Number of unique client devices connected to this RACHEL: 246
Mb of data shared from RACHEL to local users: 58769.153528 Mb
Cash value of data shared (\$0.1/Mb): \$5,876.92
Total page visits on RACHEL: 152114

First Delivery : Thu Nov 25 2021 19:21:35 GMT+0000 (Coordinated Universal Time)
Number of deliveries : 5

[More info](#)

Share your experiences deploying RACHEL



<https://community.worldpossible.org/>